WHAT IS CLAIMED IS:

1	1. A method for forming a second access penetration in a wall of a		
2	body lumen having a first access penetration in said wall, said method comprising:		
3	introducing a penetrating device inwardly through the first access		
4	penetration into the body lumen;		
5	positioning a penetrating element of the penetrating device at a target site		
6	in the lumen; and		
7	advancing the penetrating element outwardly through the wall of the		
8	lumen and overlying tissue to form the second access penetration.		
1	2. A method as in claim 1, wherein introducing the penetrating device		
2	comprises introducing a catheter having a lumen therethrough to the target site and		
3	pushing the penetrating device from the catheter, wherein the penetrating element deflects		
4	laterally so that it passes through the wall as it is advanced.		
	, and the second		
1	3. A method as in claim 2, further comprising rotating the penetrating		
2	device to aim the penetrating element prior to pushing the penetrating device from the		
3	catheter.		
1.	4. A method as in claim 3, further comprising viewing a marker on		
2	the catheter and/or penetrating device while the device is being rotated to determine when		
3			
l	5. A method as in claim 2, further comprising anchoring or stiffening		
2	at least a portion of the catheter as the penetrating device is pushed from the catheter.		
1	6. A method as in any of claims 1 to 5, wherein the penetrating device		
2	comprises a guide tube having a lumen therethrough and the penetrating device within the		
3	lumen, further comprising removing the penetrating element from the guide tube after the		
4	second access penetration has been formed, whereby the guide tube lumen provides a		
5	path between the first access penetration and the second access penetration.		
1	7. A method as in claim 6, further comprising passing a guidewire		
2	through the lumen of the guide tube and withdrawing the guide tube to leave the		
3	guidewire in place.		

1	o. Am	ethod as in any of claims 1 to 5, wherein the body lumen is a	
2	2 blood vessel.		
1	1 9. Am	ethod as in claim 8, wherein the blood vessel is selected from	
2		eries, veins, autologous grafts, artificial grafts, and arterio-	
3		, , , , , , , , , , , , , , , , , , ,	
1		ethod for positioning a guidewire in a body lumen, said	
2			
3	positioning	a guide tube between a first access penetration and a second	
4	1		
5	5 passing a gu	idewire through the guide tube, and	
6	6 withdrawing	the guide tube to leave the guidewire in place.	
1	1 11. A me	ethod as in claim 10, wherein the body lumen is a blood vessel.	
1	12. A me	thod as in claim 11, wherein the blood vessel is selected from	
2	the group consisting of arter	ries, veins, autologous grafts, artificial grafts, and arterio-	
3			
1	13. A me	thod as in any of claims 10 to 12, wherein positioning the	
2		ucing a penetrating device comprising the guide tube and a	
3	1	the first access penetration, positioning the penetrating	
4		evice at a target site, advancing the penetrating element	
5		to form the second access penetration and position the guide	
6	, 5	he penetrating element from the guide tube to leave a lumen	
7		ne penetrating element from the guide tube to leave a lumen	
	and successions and gardownio.		
1	14. A met	thod as in claim 13, wherein positioning the guide tube	
2	further comprises introducing	g a catheter having a lumen therethrough to the target site	
3	and pushing the penetrating	and pushing the penetrating device from the catheter, wherein the penetrating element	
4	deflects laterally through the	wall as it is advanced.	
1	15. A met	thod as in claim 14, further comprising rotating the	
2		e penetrating element prior to pushing the penetrating device	
3	from the catheter	. 5 Passing the penetrating device	

•	76. A method as in claim 15, further comprising anchoring or		
2	stiffening at least a portion of the catheter as the penetrating device is pushed from the		
3	catheter.		
1	17. A method as in any of claims 10 to 12, further comprising		
2	introducing at least one device over the guidewire through one of the first and second		
3	access penetrations after the guide tube has been withdrawn.		
1	18. A method as in claim 17, wherein a second device is introduced		
2	over the guidewire simultaneously through the other of the access penetrations.		
1	19. A method for intervening at a target site in a body lumen, said		
2	method comprising:		
3	positioning a guidewire between a first access penetration and a second		
4	access penetration into the body lumen;		
5	introducing a first device through the first access location over the		
6	guidewire to the target site;		
7	introducing a second device through the second access location over the		
8	guidewire to the target site; and		
9	intervening at the target site using at least one of the devices.		
1	20. A method as in claim 19, wherein the body lumen is a blood vesse		
1	21. A method as in claim 20, wherein the blood vessel is selected from		
2	the group consisting of arteries, veins, autologous grafts, artificial grafts, and arterio-		
3	venous fistulas.		
1	22. A method as in any of claims 19 to 21, wherein intervening		
2	comprises using both devices.		
1	23. A method as in claim 22, wherein intervening comprises imaging		
2	with at least one of the devices.		
1	24. A method as in claim 22, wherein intervening comprises deploying		
2	an occluding element from at least one of the devices.		

1	25. A method as in claim 24, wherein intervening comprises deploying	
2	an occluding element from both of the devices to define an isolated region therebetween.	
1		
2	22, wherein mervening comprises disrupting	
3	material within the body lumen with one device and collecting the dislodged material with the other device.	
3	with the other device.	
1	27. A method as in claim 19, wherein intervening at the target site	
2	comprises using at least one device to perform angioplasty, atherectomy, aspiration,	
3	filtering, infusion, mechanical thrombectomy, endarterectomy, luminal prosthesis	
4	placement, lysis, or thrombolysis.	
1	28. A method as in claim 19, wherein positioning the guidewire	
2	28. A method as in claim 19, wherein positioning the guidewire comprises:	
3	-	
4	positioning a guide tube between the first access penetration and the second access penetration into the body lumen;	
5	passing the guidewire through the guide tube; and	
6	removing the guide tube to leave the guidewire in place.	
•	removing the guide tube to leave the guidewire in place.	
1	29. A method as in claim 28, wherein positioning the guide tube	
2	comprises introducing a penetrating device comprising the guide tube and a penetrating	
3	element through the first access penetration, positioning the penetrating element of the	
4	penetrating device at a target site, advancing the penetrating element outwardly through	
5	the wall to form the second access penetration and position the guide tube therein, and	
6	withdraw the penetrating element from the guide tube to leave a lumen for receiving the	
7	guidewire.	
1	30. A method as in claim 29, wherein positioning the guide tube	
2	25, wherein positioning the guide tube	
3	further comprises introducing a catheter having a lumen therethrough to the target site	
, 1	and pushing the penetrating device from the catheter, wherein the penetrating element	
7	deflects laterally through the wall as it is advanced.	
l	31. A method as in claim 30, further comprising rotating the	
2	penetrating device to aim the penetrating element prior to pushing the penetrating device	
ł	from the authora	

1	32. A method as in claim 30, further comprising anchoring a distal end
2	of the catheter as the penetrating device is pushed from the catheter.
1	33. A device for positioning a filament in a body lumen, said device
2	comprising:
3	a catheter which can be introduced through a first access penetration into
4	the body lumen; and
5	means advancable from the catheter for creating a second access
6	penetration and providing a filament path between said first and second access
7	penetrations.
1	34. A device as in claim 33, wherein the catheter has at least one lumer
2	therethrough and the advancable means is reciprocatably received in the catheter lumen.
1	35. A device as in claim 34, wherein the advancable means has a pre-
2	formed tip which deflects laterally as it is advanced from the catheter.
1	36. A device as in any of claims 33 to 35, wherein the advancable
2	means comprises a guide tube having a lumen therethrough and a penetrating element
3	removable received in the lumen and extending from a distal tip of the guide tube,
4	wherein the penetrating means can be withdrawn from the guide tube after the guide tube
5	has been placed between the access penetrations to leave the guide tube lumen as the
6	filament path.
1	37. A device as in claim 36, wherein the penetrating element is a stylet.
1	38. A device as in any of claims 33 to 35, further comprising an
2	expandable anchor disposed over at least a portion of the catheter.
l	39. A device as in claim 36, further comprising a support tube having a
2	lumen for receiving the guide tube therethrough.
i	40. A kit comprising:
2	a penetrating device having a penetrating element, and
3	instructions for use according to any of claims 1 to 5

1	41. A kit comprising:
2	a guide tube; and
3	instructions for use according to any of claims 10 to 12.